

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0001	Overall LMA Rating	Total LMA Miles						
Sacramento Maintenance Yard Cache Creek	A	25.43						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.02		0.02	0.08%	0.19	0.08		
Encroachments	0.05		0.05	0.20%	1.82	0.07		
Animal Control	0.02		0.02	0.08%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
2017 Storm Damage	0.01		0.01	0.04%				
<i>LMA Totals:</i>	0.10	0.00	0.10	0.39%	2.08	0.15	0.00	0.00
Unit No. 01 North Levee LB	Overall Unit Rating	Total Unit Miles						
ST0001	A	11.69						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.09%	0.09	0.08		
Encroachments	0.03		0.03	0.26%	1.16	0.07		
Animal Control	0.01		0.01	0.09%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
<i>Unit Totals:</i>	0.05	0.00	0.05	0.43%	1.32	0.15	0.00	0.00
Unit No. 02 South Levee RB	Overall Unit Rating	Total Unit Miles						
ST0001	A	11.48						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.09%	0.10			
Encroachments	0.02		0.02	0.17%	0.66			
Animal Control	0.01		0.01	0.09%				
<i>Unit Totals:</i>	0.04	0.00	0.04	0.35%	0.76	0.00	0.00	0.00
Unit No. 04 East Training Levee of Cache Creek Settling Basin LB	Overall Unit Rating	Total Unit Miles						
ST0001	A	2.26						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Supplemental</i>								
2017 Storm Damage	0.01		0.01	0.44%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.44%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet
Fall 2018 Levee Inspection Results****Sacramento Maintenance Yard Cache Creek**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sacramento Maintenance Yard Cache Creek

Waterway			Bank	Unit Miles
Unit No. 01 North Levee			Left	11.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/6/2018 - 3/6/2018		9/4/2018 - 9/20/2018	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By			Corey Fujitani DWR	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0001_01_s_2013_2				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has copies of the O&M Manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0001_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood fight materials.					

No Photos

LM Start		Rating **	A	Issue No.	21
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0001_01_s_2013_21				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard remain current on their emergency response training and practices.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	0.03	Rating **	M	Issue No.	48
LM End	0.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.715268°	38.716647°
				-121.825345°	-121.823667°
DWR ID	DWR_ST0001_01_s_2015_48				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is located at the levee toe.					

LM Start	0.03	Rating **	M	Issue No.	48 (cont)
LM End	0.16	Issue Type +	En	Location *	LS

Photo 1 of 2 : FA_2018_ST0001_259_48_20180904_00034.jpg



View of the ditch at the landside levee toe. Fall 2017.

Photo 2 of 2 : FA_2018_ST0001_259_48_20180904_00035.jpg



View of the ditch on the landward side of the levee looking upstream. Fall 2015.

LM Start	1.04	Rating **	M	Issue No.	41
LM End	1.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.720327°	38.720327°
				-121.813742°	-121.813742°
DWR ID	DWR_ST0001_01_s_2018_41				
Comment Code					
DE : Debris					
Inspector Comment					
Broken concrete standpipes on landside slope.					

Photo 1 of 1 : FA_2018_ST0001_259_41_20180904_00031.jpg



View of standpipes on landside slope. Spring 2018.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	1.37	Rating **	M	Issue No.	83
LM End	1.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.722669 °	38.722669 °
				-121.808792 °	-121.808792 °
DWR ID	16270				
Comment Code					
Inspector Comment					
FS_ID:50432 DS_ID:16270 EP_NO: 6790 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: May need additional signs on LS of levee. FIELD_STRUCT_DESC: 6-inch high-pressure natural gas main of an unknown material through the levee and under the channel, at an unknown depth. Gas line marker on the waterside (WS) slope. (6-inch high-pressure natural gas main authorized under Permit No. 6790, 1969 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 6/16/2016 6:58:00 AM					

Photo 1 of 3 : UCIP_FA_2018_50432_60162.jpg



Waterside view: gasline marker

LM Start	1.37	Rating **	M	Issue No.	83 (cont)
LM End	1.37	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_50432_60161.jpg



Waterside view: closer look at gasline marker

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	1.37	Rating **	M	Issue No.	83 (cont)	
LM End	1.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.722669 °	38.722669 °	
				-121.808792 °	-121.808792 °	
DWR ID	16270					
Comment Code						
Inspector Comment						
FS_ID:50432 DS_ID:16270 EP_NO: 6790 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: May need additional signs on LS of levee. FIELD_STRUCT_DESC: 6-inch high-pressure natural gas main of an unknown material through the levee and under the channel, at an unknown depth. Gas line marker on the waterside (WS) slope. (6-inch high-pressure natural gas main authorized under Permit No. 6790, 1969 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 6/16/2016 6:58:00 AM						

Photo 3 of 3 : UCIP_FA_2018_50432_60160.jpg



Landside view: no gasoline marker

LM Start	1.77	Rating **	M	Issue No.	63
LM End	1.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.728217 °	38.729944 °
				-121.806903 °	-121.806506 °
DWR ID	DWR_ST0001_01_s_2017_63				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_63_20180904_00044.jpg



View of fence on LS slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	1.90	Rating **	U	Issue No.	3
LM End	1.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.730008 °	38.731170 °
				-121.806497 °	-121.806220 °
DWR ID	DWR_ST0001_01_s_2012_3				
Comment Code					
V6 : Landscaping					
Inspector Comment					

LM Start	1.90	Rating **	U	Issue No.	3 (cont)
LM End	1.98	Issue Type +	En	Location *	LS

Photo 1 of 3 : FA_2018_ST0001_259_3_20180904_00001.jpg



View of thick vegetation on landside slope. Fall 2017.

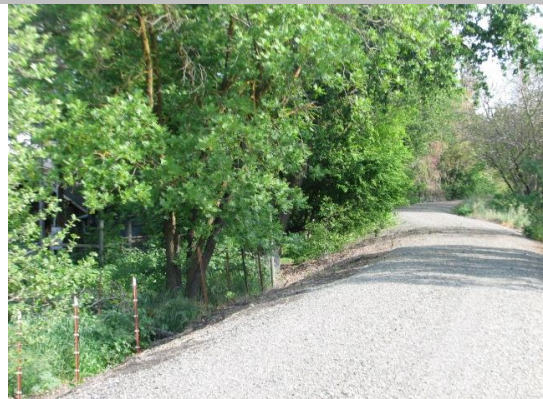
Photo 2 of 3 : FA_2018_ST0001_259_3_20180904_00002.jpg



View of the landscaping that needs to be trimmed on the landward side of the levee looking downstream. Fall 2015.

LM Start	1.90	Rating **	U	Issue No.	3 (cont)
LM End	1.98	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2018_ST0001_259_3_20180904_00003.jpg



The landscape needs to be trimmed up. Spring 2014

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	1.93	Rating **	M	Issue No.	4
LM End	1.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730506 °	38.730506 °
				-121.806449 °	-121.806449 °
DWR ID	DWR_ST0001_01_s_2012_4				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_4_20180904_00004.jpg



The building backs up to the landside levee toe of the levee.

LM Start	1.96	Rating **	M	Issue No.	28
LM End	1.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.730860 °	38.730860 °
				-121.806332 °	-121.806332 °
DWR ID	DWR_ST0001_01_s_2014_28				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus at the toe of the levee.					

Photo 1 of 1 : FA_2018_ST0001_259_28_20180904_00023.jpg



The property owner has planted cactus along the toe of the levee. Spring 2014

LM Start	1.98	Rating **	M	Issue No.	6
LM End	2.01	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.731166 °	38.731620 °
				-121.806215 °	-121.806032 °
DWR ID	DWR_ST0001_01_s_2012_6				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Catus on the waterside berm.					

Photo 1 of 1 : FA_2018_ST0001_259_6_20180904_00005.jpg



View of the cactus landscaping on the waterward side of the levee looking downstream. Fall 2015.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	1.98	Rating **	U	Issue No.	7
LM End	2.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.731167°	38.731614°
				-121.806217°	-121.806032°
DWR ID	DWR_ST0001_01_s_2012_7				
Comment Code					
FE : Fence					
Inspector Comment					

LM Start	1.98	Rating **	U	Issue No.	7 (cont)
LM End	2.01	Issue Type +	En	Location *	LS

Photo 1 of 2 : FA_2018_ST0001_259_7_20180904_00006.jpg



Wild grape and other plants are obstructing the view for inspection. Fall 2011

Photo 2 of 2 : FA_2018_ST0001_259_7_20180904_00007.jpg



View of the landscaping on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

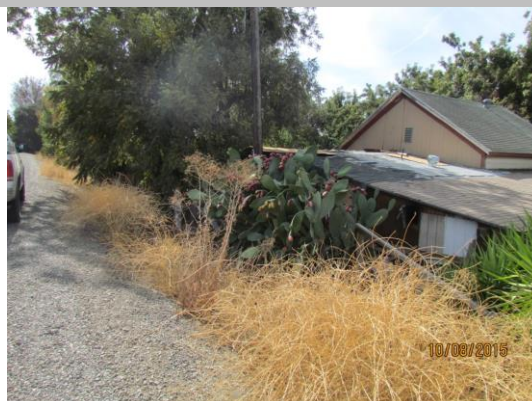
Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.01	Rating **	M	Issue No.	8
LM End	2.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.731507°	38.731507°
				-121.806122°	-121.806122°
DWR ID	DWR_ST0001_01_s_2012_8				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_8_20180904_00008.jpg



View of the building on the landward side of the levee looking upstream.
Cactus planted at the toe obstructs visibility. Fall 2015.

LM Start	2.01	Rating **	M	Issue No.	33
LM End	2.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.731557 °	38.731557 °
				-121.806054 °	-121.806054 °
DWR ID	DWR_ST0001_01_f_2017_33				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus on landside slope.					

No Photos

LM Start	2.02	Rating **	M	Issue No.	36
LM End	2.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.731697 °	38.731697 °
				-121.806008 °	-121.806008 °
DWR ID	DWR_ST0001_01_f_2017_36				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings at landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Cache Creek

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.07	Rating **	M	Issue No.	55
LM End	2.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.732415 °	38.732415 °
				-121.805731 °	-121.805731 °
DWR ID	DWR_ST0001_01_s_2018_55				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on waterside slope.					

No Photos

LM Start	2.08	Rating **	M	Issue No.	13
LM End	2.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.732523 °	38.732523 °
				-121.805690 °	-121.805690 °
DWR ID	DWR_ST0001_01_s_2012_13				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_13_20180904_00012.jpg



View of the building on the landward side of the levee looking upstream.
Fall 2015.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.12	Rating **	M	Issue No.	12
LM End	2.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733000 °	38.733000 °
				-121.805409 °	-121.805409 °
DWR ID	DWR_ST0001_01_s_2012_12				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_12_20180904_00011.jpg



View of the building on the landward side of the levee looking downstream. Fall 2015.

LM Start	2.12	Rating **	M	Issue No.	14
LM End	2.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.733103°	38.733233°
				-121.805330°	-121.805180°
DWR ID	DWR_ST0001_01_s_2012_14				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : FA_2018_ST0001_259_14_20180904_00013.jpg



View of the shrubs on the landward side of the levee looking upstream. Fall 2015.

LM Start	2.12	Rating **	M	Issue No.	14 (cont)
LM End	2.14	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_ST0001_259_14_20180904_00014.jpg



Another view of the shrubs. Fall 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.13	Rating **	U	Issue No.	15
LM End	2.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733215 °	38.733350 °
				-121.805262 °	-121.805082 °
DWR ID	DWR_ST0001_01_s_2012_15				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_15_20180904_00015.jpg



View of the fence on the landward side of the levee looking upstream.
Fall 2015.

LM Start	2.16	Rating **	M	Issue No.	9
LM End	2.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733460 °	38.733581 °
				-121.804865 °	-121.804647 °
DWR ID	DWR_ST0001_01_f_2017_9				
Comment Code					
FE : Fence					
Inspector Comment					
Metal railing on landside hinge point.					

No Photos

LM Start	2.17	Rating **	M	Issue No.	16
LM End	2.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733580 °	38.733580 °
				-121.804650 °	-121.804650 °
DWR ID	DWR_ST0001_01_s_2012_16				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 2 : FA_2018_ST0001_259_16_20180904_00016.jpg



Horse barn and corral are within the easement of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Cache Creek

Dead tree stumps on waterside levee slope. Spring 2017.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.26	Rating **	M	Issue No.	84
LM End	2.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.733675 °	38.733675 °
				-121.803009 °	-121.803009 °
DWR ID	16268				
Comment Code					
Inspector Comment					
FS_ID:49099					
DS_ID:16268					
EP_NO: 2415					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: May need to install gasoline marker on WS slope.					
FIELD_STRUCT_DESC: 20-inch wrapped steel natural gas pipeline					
through the levee, 4 feet below the crown. Two cutoff walls. Gas line					
indicator found on the landside (LS) of the levee. (20-inch wrapped steel					
natural gas pipeline authorized under Permit No. 2415, 1956 - Pacific					
Gas and Electric Company [PG&E]). [Additional Reference(s): DWR					
Levee Log, 1993. USACE Sacramento O&M Manual 126, November					
1961, (HLM 2.24)].					
FS Date: 6/16/2016 7:00:04 AM					

LM Start	2.26	Rating **	M	Issue No.	84 (cont)
LM End	2.26	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_49099_60164.jpg



Waterside view: no indicators found

Photo 2 of 3 : UCIP_FA_2018_49099_60163.jpg



Landside view: gasoline indicator

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.26	Rating **	M	Issue No.	84 (cont)	
LM End	2.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.733675 °	38.733675 °	
				-121.803009 °	-121.803009 °	
DWR ID	16268					
Comment Code						
Inspector Comment						
FS_ID:49099						
DS_ID:16268						
EP_NO: 2415						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: May need to install gasoline marker on WS slope.						
FIELD_STRUCT_DESC: 20-inch wrapped steel natural gas pipeline						
through the levee, 4 feet below the crown. Two cutoff walls. Gas line						
indicator found on the landside (LS) of the levee. (20-inch wrapped steel						
natural gas pipeline authorized under Permit No. 2415, 1956 - Pacific						
Gas and Electric Company [PG&E]). [Additional Reference(s): DWR						
Levee Log, 1993. USACE Sacramento O&M Manual 126, November						
1961, (HLM 2.24)].						
FS Date: 6/16/2016 7:00:04 AM						

Photo 3 of 3 : UCIP_FA_2018_49099_60165.jpg



Landside view: gasoline indicator/flag

LM Start	2.27	Rating **	M	Issue No.	37
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733676 °	38.733676 °
				-121.802958 °	-121.802958 °
DWR ID	DWR_ST0001_01_f_2017_37				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Wood pile on waterside hinge point.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.40	Rating **	C	Issue No.	31
LM End		Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.733698 °	°
				-121.800508 °	°
DWR ID	DWR_ST0001_01_f _ 2018_31				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 2.8 L					
Status: Repaired					
2017 Field Notes:					
Site History: 2006 - Large new failure. 2008 - Plans for repair currently in the design phase. 2010 - Planned setback levee by CA DWR, 60% design complete, construction planned for 2012. 2011 - Construction delayed to 2013 - 2014. 2016 - Site repaired with a setback levee by CA DWR.					

No Photos

LM Start	2.54	Rating **	M	Issue No.	78
LM End	2.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733285 °	38.732782 °
				-121.798029 °	-121.797167 °
DWR ID	DWR_ST0001_01_s_2017_78				
Comment Code					
FE : Fence					
Inspector Comment					
Wire fence at landside levee toe.					

Photo 1 of 1 : FA_2018_ST0001_259_78_20180904_00048.jpg



Chain fence at landside levee toe. Spring 2017.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Sacramento Maintenance Yard Cache Creek

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.57	Rating **	A/W	Issue No.	30 (cont)
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.732836 °	38.732685 °
				-121.797893 °	-121.797154 °
DWR ID	DWR_ST0001_01_f_2018_30				
Comment Code					

Comment Code

Inspector Comment

2017 Site ID: CHC 2.4 L
Status: Critical
2017 Field Notes: No observed change.
Site History: Site identified as CRITICAL in 2002. 2006 - Currently constructing a setback levee. New failures present and extensive. Downstream end of the setback levee did not extend far enough. Upstream end was repaired. 2007 - DWR repaired with a setback levee, but the levee did not go far enough downstream. 2012 - New cracks observed. 2013 - Fresh erosion on upper bank.

DWR Inspector Comment: No observed changes in erosion. Fall 2018.

Photo 3 of 3 : FA_2018_ST0001_259_30_20181023_00033.jpg



USACE 2013 Photo #1

LM Start	2.62	Rating **	M	Issue No.	77
LM End	2.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.732795 °	38.732897 °
				-121.797050 °	-121.796547 °
DWR ID	DWR_ST0001_01_s_2017_77				

Comment Code

FE : Fence

Inspector Comment

Wire fence at landside toe.

Photo 1 of 1 : FA_2018_ST0001_259_77_20180904_00047.jpg



Chain fence at landside levee toe. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	71
LM End	2.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733075 °	38.733594 °
				-121.796039 °	-121.795131 °
DWR ID	DWR_ST0001_01_s_2016_71				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_71_20180904_00045.jpg



View of the equipment on the landward side of the levee looking upstream. Spring 2016.

LM Start	2.69	Rating **	M	Issue No.	20
LM End	2.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.733145 °	38.733145 °
				-121.795845 °	-121.795845 °
DWR ID	DWR_ST0001_01_s_2012_20				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 2 : FA_2018_ST0001_259_20_20180904_00018.jpg



The corner of the shop is within the easement of the levee. Fall 2011

LM Start	2.69	Rating **	M	Issue No.	20 (cont)
LM End	2.69	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_ST0001_259_20_20180904_00019.jpg



View of the building on the landward side of the levee looking upstream. Fall 2015.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	2.82	Rating **	C	Issue No.	61
LM End	2.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.734457°	38.734457°
				-121.793794°	-121.793794°
DWR ID	DWR_ST0001_01_s_2018_61				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings at landside toe.					

No Photos

LM Start	2.84	Rating **	A/W	Issue No.	62
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.734514 °	38.734514 °
				-121.793418 °	-121.793418 °
DWR ID	DWR_ST0001_01_s_2018_62				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on waterside berm and toe road.					

LM Start	2.84	Rating **	A/W	Issue No.	62 (cont)
LM End	2.84	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : FA_2018_ST0001_259_62_20180904_00039.jpg



View of erosion on toe road, looking towards Cache Creek. Spring 2018.

Photo 2 of 5 : FA_2018_ST0001_259_62_20180904_00040.jpg



View of erosion looking towards the landside levee slope, facing northeast. Spring 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	3.05	Rating **	M	Issue No.	49
LM End	3.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.734357 °	38.734357 °
				-121.789547 °	-121.789547 °
DWR ID	DWR_ST0001_01_f_2018_49				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limbs on the landside slope.					

No Photos

LM Start	3.48	Rating **	C	Issue No.	32
LM End	3.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.732941 °	38.731626 °
				-121.784965 °	-121.785231 °
DWR ID	DWR_ST0001_01_f_2018_32				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 3.4 L					
Status: Repaired					
2017 Field Notes:					
Site History: 2006 - Some significant new erosion, especially fresh upper bank slumping. Still substantial berm. 2010 - Site extended downstream, some new erosion, heavily vegetated and hard to see. Planned setback levee by CA DWR, 60% design complete, construction planned for 2012. 2011 - Construction delayed to 2013 - 2014. 2016 - Site repaired with a setback levee by CA DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	3.68	Rating **	M	Issue No.	42
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730048 °	38.730048 °
				-121.784346 °	-121.784346 °
DWR ID	DWR_ST0001_01_f_2017_42				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile at the landside toe.					

No Photos

LM Start	3.68	Rating **	M	Issue No.	75
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730051 °	38.730051 °
				-121.784336 °	-121.784336 °
DWR ID	DWR_ST0001_01_s_2017_75				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_75_20180904_00046.jpg



Prunings at landside levee toe. Spring 2017.

LM Start	3.85	Rating **	A/W	Issue No.	43
LM End	3.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.728731 °	38.728731 °
				-121.782015 °	-121.782015 °
DWR ID	DWR_ST0001_01_f_2017_43				
Comment Code					
PR : Prunings					
Inspector Comment					
Previous pruning pile location.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	4.22	Rating **	A/W	Issue No.	34
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.727207°	38.727187°
				-121.775521°	-121.775450°
DWR ID	DWR_ST0001_01_f_2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:249					
Site Designation:LMA-57					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/2/2017					
Notes: setback levee site; remaining berm greater than 86 feet, no section taken, photo only.					

Photo 1 of 3 : LEVAL_FA_2018_249_954.jpg



LM Start	4.22	Rating **	A/W	Issue No.	34 (cont)
LM End	4.23	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2018_249_959.jpg

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	4.22	Rating **	A/W	Issue No.	34 (cont)	
LM End	4.23	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.727207 °		38.727187 °
				-121.775521 °		-121.775450 °
DWR ID	DWR_ST0001_01_f_2017_34					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:249						
Site Designation:LMA-57						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/2/2017						
Notes: setback levee site; remaining berm greater than 86 feet, no section taken, photo only.						

Photo 3 of 3 : LEVAL_FA_2018_249_960.jpg



LM Start	4.34	Rating **	M	Issue No.	52
LM End	4.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.726754 °	38.726242 °
				-121.773424 °	-121.772221 °
DWR ID	DWR_ST0001_01_f_2016_52				
Comment Code					
FE : Fence					
Inspector Comment					
Fence on LS slope.					

Photo 1 of 1 : FA_2018_ST0001_259_52_20180904_00037.jpg



Fence on landside slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	4.50	Rating **	M	Issue No.	51
LM End	4.50	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.725438 °	38.725438 °
				-121.771049 °	-121.771049 °
DWR ID	DWR_ST0001_01_f_2016_51				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_51_20180904_00036.jpg



View of prunings on LS slope. Fall 2016.

LM Start	4.78	Rating **	A/W	Issue No.	24
LM End	4.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.722590°	38.722590°
				-121.767294°	-121.767294°
DWR ID	DWR_ST0001_01_s_2012_24				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment was moved, but area shoulder be monitored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	4.98	Rating **	M	Issue No.	85
LM End	4.98	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.721038 °	38.721038 °
				-121.764180 °	-121.764180 °
DWR ID	16265				
Comment Code					
Inspector Comment					
FS_ID:49111 DS_ID:16265 EP_NO: 7232 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: May need marker on WS. FIELD_STRUCT_DESC: Telephone conduit of an unknown size or material through the levee, 2.5 feet below the crown. Communications marker located on the east side of Highway 113 on the landside (LS) toe. (Telephone conduit authorized under Permit No. 7232, 1970 - Pacific Telephone and Telegraph Company [PT&T]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 6/16/2016 7:08:33 AM					

LM Start	4.98	Rating **	M	Issue No.	85 (cont)
LM End	4.98	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2018_49111_73501.jpg



Sign on LS toe.

Photo 2 of 2 : UCIP_FA_2018_49111_73500.jpg



Sign on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	4.99	Rating **	M	Issue No.	86	
LM End	4.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.721025 °	38.721025 °	
				-121.764147 °	-121.764147 °	
DWR ID	16756					
Comment Code						
Inspector Comment						
FS_ID:49112 DS_ID:16756 EP_NO: 3089 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Signage in disrepair and need signs at Levee. Need to contact owner to determine status of crossing and install new signs if appropriate to do so. FIELD_STRUCT_DESC: 4-inch steel natural gas pipeline through the levee, 4 feet below the crownGas line marker located 500 feet north of the levee crossing at the levee access road/gate. Pipe alignment to east of bridge. (4-inch natural gas pipeline grouted in place and replaced with a 4-inch steel natural gas pipeline to east side of bridge under Permit No. 3089, 1959 - Yolo County Sales Company). [Additional Reference(s): USACE Sacramento O&M Manual 126, November 1961, (HLM 4.98)]. FS Date: 6/16/2016 7:09:02 AM						

LM Start	4.99	Rating **	M	Issue No.	86 (cont)
LM End	4.99	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2018_49112_73504.jpg



Gasline marker next to levee access gate 500-feet north of levee crown.

Photo 2 of 2 : UCIP_FA_2018_49112_73503.jpg



Gasline marker at Best Ranch Road, 1500-feet south of levee crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	5.73	Rating **	U	Issue No.	45
LM End	5.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.723661°	38.723786°
				-121.754887°	-121.754390°
DWR ID	DWR_ST0001_01_f_2018_45				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile the completely covers the landside slope.					

Photo 1 of 2 : FA_2018_ST0001_259_45_20180924_00070.jpg



View of the pruning pile on the landside slope. Fall 2018.

LM Start	5.73	Rating **	U	Issue No.	45 (cont)
LM End	5.75	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_ST0001_259_45_20180904_00032.jpg



View of prunings on landside slope. Spring 2017.

LM Start	6.53	Rating **	M	Issue No.	47
LM End	6.53	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.728814 °	38.728814 °
				-121.742344 °	-121.742344 °
DWR ID	DWR_ST0001_01_f_2018_47				
Comment Code					
EQ : Equipment					
Inspector Comment					
Beehives at the waterside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	7.25	Rating **	M	Issue No.	57
LM End	7.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727705 °	38.727705 °
				-121.729462 °	-121.729462 °
DWR ID	DWR_ST0001_01_f_2015_57				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus on landside slope.					

Photo 1 of 1 : FA_2018_ST0001_259_57_20180904_00038.jpg



View of the cactus on the landward side of the levee looking upstream.
Fall 2015.

LM Start	7.26	Rating **	C	Issue No.	35
LM End	7.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727757 °	38.727757 °
				-121.729221 °	-121.729221 °
DWR ID	DWR_ST0001_01_f_2017_35				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	7.30	Rating **	M	Issue No.	40
LM End	7.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727878 °	38.728085 °
				-121.728553 °	-121.727740 °
DWR ID	DWR_ST0001_01_s_2012_40				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 2 : FA_2018_ST0001_259_40_20180904_00029.jpg



Irrigation pipe and equipment are within the easement of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	7.30	Rating **	M	Issue No.	40 (cont)	
LM End	7.34	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.727878 °	38.728085 °	
				-121.728553 °	-121.727740 °	
DWR ID	DWR_ST0001_01_s_2012_40					
Comment Code						
EQ : Equipment						
Inspector Comment						

Photo 2 of 2 : FA_2018_ST0001_259_40_20180904_00030.jpg



View of the equipment at the levee toe on the landward side looking downstream. Fall 2015.

LM Start	7.30	Rating **	M	Issue No.	39
LM End	7.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727870 °	38.727870 °
				-121.728527 °	-121.728527 °
DWR ID	DWR_ST0001_01_s_2012_39				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_259_39_20180904_00028.jpg



The barn and livestock pens are within the easement of the levee.

LM Start	7.35	Rating **	M	Issue No.	44
LM End	7.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.728149 °	38.728149 °
				-121.727528 °	-121.727528 °
DWR ID	DWR_ST0001_01_f_2017_44				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus on landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	7.36	Rating **	M	Issue No.	26
LM End	7.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.728188°	38.728194°
				-121.727442°	-121.720255°
DWR ID	DWR_ST0001_01_s_2015_26				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is located at the levee toe.					

Photo 1 of 2 : FA_2018_ST0001_259_26_20180904_00021.jpg



View of ditch on the landward side of the levee looking upstream. Spring 2015.

LM Start	7.36	Rating **	M	Issue No.	26 (cont)
LM End	7.78	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_ST0001_259_26_20180904_00022.jpg



View of the ditch on the landward side of the levee looking upstream. Fall 2015.

LM Start	7.69	Rating **	M	Issue No.	29
LM End	7.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.729027 °	38.729027 °
				-121.721683 °	-121.721683 °
DWR ID	DWR_ST0001_01_s_2015_29				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	7.89	Rating **	M	Issue No.	87
LM End	7.89	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.727333°	38.727333°
				-121.718558°	-121.718558°
DWR ID	16264				
Comment Code					
Inspector Comment					
FS_ID:50811 DS_ID:16264 EP_NO: 12983 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Gasline markers in disrepair and should be replaced. Gasline indicator found on waterside of the levee. FIELD_STRUCT_DESC: 4-inch and 6-inch coated steel natural gas pipelines through the levee and under the Cache Creek Settling Basin, at an unknown depth. (4-inch and 6-inch pipelines authorized under Permit No. 12983, 1980 - Shell Oil Company). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 11/21/2016 7:56:33 AM					

Photo 1 of 2 : UCIP_FA_2018_50811_60197.jpg



Waterside view: gasline indicator

LM Start	7.89	Rating **	M	Issue No.	87 (cont)
LM End	7.89	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_FA_2018_50811_60196.jpg



Landside view: no indicator found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	7.94	Rating **	M	Issue No.	38
LM End	7.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727277 °	38.727277 °
				-121.717618 °	-121.717618 °
DWR ID	DWR_ST0001_01_f_2018_38				
Comment Code					
EQ : Equipment					
Inspector Comment					
Beehives.					

Photo 1 of 1 : FA_2018_ST0001_259_38_20180924_00069.jpg



View of beehives at the landside toe. Fall 2018.

LM Start	8.82	Rating **	M	Issue No.	46
LM End	8.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.726489 °	38.726489 °
				-121.701914 °	-121.701914 °
DWR ID	DWR_ST0001_01_f_2018_46				
Comment Code					
EQ : Equipment					
Inspector Comment					
Beehives on landside toe.					

No Photos

LM Start	10.01	Rating **	M	Issue No.	25
LM End	10.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.710296 °	38.710296 °
				-121.697480 °	-121.697480 °
DWR ID	DWR_ST0001_01_f_2015_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Approximately 4 holes halfway down the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	10.40	Rating **	M	Issue No.	88
LM End	10.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.705051°	38.705051°
				-121.695577°	-121.695577°
DWR ID	17115				
Comment Code					
Inspector Comment					
FS_ID:53214					
DS_ID:17115					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 10/19/16 w/s capped l/s capped					
FIELD_STRUCT_DESC: 18-inch, 0.25-inch-thick soil-proofed steel					
irrigation pipe through the levee, 4 feet below the crown. Pipe used for					
seasonal irrigation. Pipe opening capped on both ends. As-Built					
Drawing North Station 68+00. Pipe installed during Cache Creek					
Settling Basin Enlargement, 1991.					
FS Date: 11/16/2018 8:34:00 AM					

LM Start	10.40	Rating **	M	Issue No.	88 (cont)
LM End	10.40	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53214_60219.jpg



Crown view: overview

Photo 2 of 3 : UCIP_FA_2018_53214_60223.jpg



Waterside view: closer look at capped pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	10.40	Rating **	M	Issue No.	88 (cont)	
LM End	10.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.705051 °	38.705051 °	
				-121.695577 °	-121.695577 °	
DWR ID	17115					
Comment Code						
Inspector Comment						
FS_ID:53214						
DS_ID:17115						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 10/19/16 w/s capped l/s capped						
FIELD_STRUCT_DESC: 18-inch, 0.25-inch-thick soil-proofed steel						
irrigation pipe through the levee, 4 feet below the crown. Pipe used for						
seasonal irrigation. Pipe opening capped on both ends. As-Built						
Drawing North Station 68+00. Pipe installed during Cache Creek						
Settling Basin Enlargement, 1991.						
FS Date: 11/16/2018 8:34:00 AM						

Photo 3 of 3 : UCIP_FA_2018_53214_60222.jpg



Waterside view: steel pipe on the slope of the levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	10.75	Rating **	M	Issue No.	89	
LM End	10.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.701814 °	38.701814 °	
				-121.690832 °	-121.690832 °	
DWR ID	17119					
Comment Code						
Inspector Comment						
FS_ID:53215 DS_ID:17119 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/3/2016: Per Ted Skidgel, new cap and gasket installed by farmer on LS vent, and siphon breaker/vent installed on WS. No permit was found for this work. Siphon breaker on WS needs cover. Repair Priority changed from No Action Needed to Non-Urgent. (K. Fazel - UCIP)08/16/2016: Repaired erosion L/S 8/16 pipe repaired by farmer prior to erosion. (T. Skidgel - ST0001). (Note: crossing was downgraded from Urgent to No Action Needed)06/28/2016: Erosion still present off LS shoulder, caused by leaking vent. Erosion to be repaired and backfilled this summer by Sac Yard. Pipe leaking at LS toe into ditch (not affecting levee prism) (K. Fazel - UCIP).2013-2016: Pipe leaks, severe erosion from levee shoulder to pipe daylight on landside levee slope, summer of 2013 repaired erosion,pipe needs repaired. (P. Amatya - DWR) FIELD_STRUCT_DESC: 18-inch, 0.25-inch-thick soil-proofed steel irrigation pipe, 2 feet below the crown. Capped vent on the apex of the pipe off the landside (LS) shoulder. Booster pump located off the LS toe at the LS toe ditch. Another groundwater pump is located a further distance off the LS toe. Pumped groundwater is conveyed to the toe ditch and a booster pump pumps water through the levee and into a waterside (WS) ditch in the Cache Creek Settling Basin. Distribution box off the WS toe at the WS toe ditch. Could not locate a positive closure device. [Additional Reference(s): USACE As-Constructed Drawing North Station 49+50]. FS Date: 11/16/2018 8:35:41 AM						

Photo 1 of 3 : UCIP_FA_2018_53215_60148.jpg



Waterside view: pipe in the ditch

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	10.75	Rating **	M	Issue No.	89 (cont)	
LM End	10.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.701814 °	38.701814 °	
				-121.690832 °	-121.690832 °	
DWR ID	17119					
Comment Code						
Inspector Comment						
FS_ID:53215 DS_ID:17119 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/3/2016: Per Ted Skidgel, new cap and gasket installed by farmer on LS vent, and siphon breaker/vent installed on WS. No permit was found for this work. Siphon breaker on WS needs cover. Repair Priority changed from No Action Needed to Non-Urgent. (K. Fazel - UCIP)08/16/2016: Repaired erosion L/S 8/16 pipe repaired by farmer prior to erosion. (T. Skidgel - ST0001). (Note: crossing was downgraded from Urgent to No Action Needed)06/28/2016: Erosion still present off LS shoulder, caused by leaking vent. Erosion to be repaired and backfilled this summer by Sac Yard. Pipe leaking at LS toe into ditch (not affecting levee prism) (K. Fazel - UCIP).2013-2016: Pipe leaks, severe erosion from levee shoulder to pipe daylight on landside levee slope, summer of 2013 repaired erosion,pipe needs repaired. (P. Amatya - DWR) FIELD_STRUCT_DESC: 18-inch, 0.25-inch-thick soil-proofed steel irrigation pipe, 2 feet below the crown. Capped vent on the apex of the pipe off the landside (LS) shoulder. Booster pump located off the LS toe at the LS toe ditch. Another groundwater pump is located a further distance off the LS toe. Pumped groundwater is conveyed to the toe ditch and a booster pump pumps water through the levee and into a waterside (WS) ditch in the Cache Creek Settling Basin. Distribution box off the WS toe at the WS toe ditch. Could not locate a positive closure device. [Additional Reference(s): USACE As-Constructed Drawing North Station 49+50]. FS Date: 11/16/2018 8:35:41 AM						

Photo 2 of 3 : UCIP_FA_2018_53215_60147.jpg



Landside view: pipe daylight on LS levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.69	09/04/2018 09/20/2018	Zach Jojola

LM Start	10.75	Rating **	M	Issue No.	89 (cont)	
LM End	10.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.701814 °	38.701814 °	
				-121.690832 °	-121.690832 °	
DWR ID	17119					
Comment Code						
Inspector Comment						
FS_ID:53215 DS_ID:17119 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/3/2016: Per Ted Skidgel, new cap and gasket installed by farmer on LS vent, and siphon breaker/vent installed on WS. No permit was found for this work. Siphon breaker on WS needs cover. Repair Priority changed from No Action Needed to Non-Urgent. (K. Fazel - UCIP)08/16/2016: Repaired erosion L/S 8/16 pipe repaired by farmer prior to erosion. (T. Skidgel - ST0001). (Note: crossing was downgraded from Urgent to No Action Needed)06/28/2016: Erosion still present off LS shoulder, caused by leaking vent. Erosion to be repaired and backfilled this summer by Sac Yard. Pipe leaking at LS toe into ditch (not affecting levee prism) (K. Fazel - UCIP).2013-2016: Pipe leaks, severe erosion from levee shoulder to pipe daylight on landside levee slope, summer of 2013 repaired erosion,pipe needs repaired. (P. Amatya - DWR) FIELD_STRUCT_DESC: 18-inch, 0.25-inch-thick soil-proofed steel irrigation pipe, 2 feet below the crown. Capped vent on the apex of the pipe off the landside (LS) shoulder. Booster pump located off the LS toe at the LS toe ditch. Another groundwater pump is located a further distance off the LS toe. Pumped groundwater is conveyed to the toe ditch and a booster pump pumps water through the levee and into a waterside (WS) ditch in the Cache Creek Settling Basin. Distribution box off the WS toe at the WS toe ditch. Could not locate a positive closure device. [Additional Reference(s): USACE As-Constructed Drawing North Station 49+50]. FS Date: 11/16/2018 8:35:41 AM						

Photo 3 of 3 : UCIP_FA_2018_53215_60149.jpg



Landside view: pumping plant

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sacramento Maintenance Yard Cache Creek

Waterway			Bank	Unit Miles
Unit No. 02 South Levee			Right	11.48
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/7/2018 - 3/7/2018		9/20/2018 - 9/21/2018	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By			Corey Fujitani DWR	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	0.18	Rating **	N	Issue No.	10
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.729560 °	38.729560 °
				-121.805231 °	-121.805231 °
DWR ID	DWR_ST0001_02_f_2015_10				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
The stump is located at the levee toe.					

Photo 1 of 1 : FA_2018_ST0001_260_10_20180904_00010.jpg



View of the tree stump at the landward side of the levee looking downstream. Fall 2015.

LM Start	0.27	Rating **	N	Issue No.	6
LM End	0.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.730723 °	38.730723 °
				-121.804972 °	-121.804972 °
DWR ID	DWR_ST0001_02_s_2014_6				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_6_20180904_00006.jpg



A large black walnut tree stump is at the toe of the levee. Spring 2014

LM Start	0.28	Rating **	M	Issue No.	23
LM End	0.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730989 °	38.730989 °
				-121.804910 °	-121.804910 °
DWR ID	DWR_ST0001_02_s_2017_23				
Comment Code					
PO : Pole					
Inspector Comment					
Power pole in landsde toe of the levee.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	0.70	Rating **	M	Issue No.	1
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.732190°	38.732190°
				-121.798852°	-121.798852°
DWR ID	DWR_ST0001_02_s_2012_1				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment on landside toe.					

No Photos

LM Start	1.60	Rating **	A/W	Issue No.	16
LM End	1.60	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.731659 °	38.731577 °
				-121.785931 °	-121.785936 °
DWR ID	DWR_ST0001_02_f_2017_16				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:181					
Site Designation:ST1-01					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:5/18/2017					
Notes: This site was visited under PL84-99 with the USACE, but no data was recorded at the time. USACE did not accept the site for repair because the damage was present before this year. The erosion is on the bank and is starting to cut into the WS toe road.					

Photo 1 of 1 : FA_2018_ST0001_260_16_20180904_00015.jpg



View of storm damage site on waterside berm. Does not appear to be within the levee prism at this time. Fall 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	1.65	Rating **	M	Issue No.	38
LM End	1.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.730984 °	38.730984 °
				-121.786225 °	-121.786225 °
DWR ID	DWR_ST0001_02_s_2018_38				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes on the landside slope and at the toe.					

Photo 1 of 1 : FA_2018_ST0001_260_38_20180904_00022.jpg



View of rodent holes on the landside slope. Spring 2018.

LM Start	1.68	Rating **	C	Issue No.	35
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.730596 °	38.730596 °
				-121.786041 °	-121.786041 °
DWR ID	DWR_ST0001_02_s_2018_35				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodents holes baited by the Sac Yard on landside slope near pruning pile. Recommend backfilling and monitoring.					

No Photos

LM Start	1.68	Rating **	A/W	Issue No.	20
LM End	1.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730567 °	38.730567 °
				-121.786027 °	-121.786027 °
DWR ID	DWR_ST0001_02_f_2016_20				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_20_20180904_00017.jpg



View of prunings on LS slope of the levee. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	2.40	Rating **	M	Issue No.	32
LM End	2.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.726183 °	38.726183 °
				-121.774861 °	-121.774861 °
DWR ID	DWR_ST0001_02_f_2017_32				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus at landside toe.					

No Photos

LM Start	2.40	Rating **	M	Issue No.	3
LM End	2.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.726182 °	38.726067 °
				-121.774859 °	-121.774430 °
DWR ID	DWR_ST0001_02_s_2018_3				
Comment Code					
DE : Debris					
Inspector Comment					
Irrigation lines and broken concrete pipes.					

Photo 1 of 2 : FA_2018_ST0001_260_3_20180904_00002.jpg



Additional view of debris at the same site on landward side of the levee. Fall 2016.

LM Start	2.40	Rating **	M	Issue No.	3 (cont)
LM End	2.43	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_ST0001_260_3_20180904_00003.jpg



View of the concrete pile at the toe of the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	2.43	Rating **	M	Issue No.	29
LM End	2.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.726036 °	38.725836 °
				-121.774340 °	-121.773688 °
DWR ID	DWR_ST0001_02_f_2017_29				
Comment Code					
EQ : Equipment					
Inspector Comment					
Farm equipment at landside toe.					

Photo 1 of 1 : FA_2018_ST0001_260_29_20180904_00020.jpg



View of farm equipment at landside toe. Fall 2017.

LM Start	2.61	Rating **	M	Issue No.	36
LM End	2.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.724457 °	38.724457 °
				-121.771757 °	-121.771757 °
DWR ID	DWR_ST0001_02_s_2017_36				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Trim elderberry bush on landside levee slope.					

No Photos

LM Start	2.64	Rating **	M	Issue No.	37
LM End	2.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.724129 °	38.724129 °
				-121.771383 °	-121.771383 °
DWR ID	DWR_ST0001_02_s_2017_37				
Comment Code					
PO : Pole					
Inspector Comment					
Pole with no lines attached.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Cache Creek

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	3.53	Rating **	A/W	Issue No.	2
LM End	3.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.722138 °	38.723294 °
				-121.759736 °	-121.759588 °
DWR ID	DWR_ST0001_02_f_2018_2				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 3.5 R					
Status: Eroding					
2017 Field Notes: Significant amount of debris along bank.					
Site History: 2010 - Large slump on the upper berm, a tree has recently slid down the slope. 2011 - Large slump and new erosion. 2012 - Slightly steeper slopes and cracks observed.					

Photo 1 of 1 : FA_2018_ST0001_260_2_20181023_00001.jpg



USACE 2013 Photo #1

LM Start	3.53	Rating **	A/W	Issue No.	7
LM End	3.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.722228 °	38.723109 °
				-121.759663 °	-121.759639 °
DWR ID	DWR_ST0001_02_s_2012_7				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_7_20180904_00007.jpg



View of the landscaping and fence on the landward side of the levee looking downstream. Fall 2015.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	3.54	Rating **	C	Issue No.	30
LM End	3.54	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.722273 °	38.722273 °
				-121.759633 °	-121.759633 °
DWR ID	DWR_ST0001_02_s_2018_30				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	3.60	Rating **	M	Issue No.	24
LM End	3.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.723229 °	38.723229 °
				-121.759521 °	-121.759521 °
DWR ID	DWR_ST0001_02_s_2018_24				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on the waterside slope.					

No Photos

LM Start	4.06	Rating **	M	Issue No.	8
LM End	4.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.723992 °	38.723992 °
				-121.752511 °	-121.752511 °
DWR ID	DWR_ST0001_02_s_2012_8				
Comment Code					
BU : Building					
Inspector Comment					
Building is within the easement of the levee.					

Photo 1 of 1 : FA_2018_ST0001_260_8_20180904_00008.jpg



View of the building on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	4.08	Rating **	M	Issue No.	26
LM End	4.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.724219 °	38.724219 °
				-121.752252 °	-121.752252 °
DWR ID	DWR_ST0001_02_f_2013_26				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_26_20180904_00018.jpg



View of the equipment at the toe of the landward side of the levee. Fall 2015.

LM Start	4.09	Rating **	M	Issue No.	9
LM End	4.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.724317 °	38.725242 °
				-121.752148 °	-121.751075 °
DWR ID	DWR_ST0001_02_s_2012_9				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_9_20180904_00009.jpg



View of the landscaping vegetation on the landward side of the levee looking downstream. Fall 2015.

LM Start	4.19	Rating **	A/W	Issue No.	5
LM End	4.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.725409 °	38.725409 °
				-121.750907 °	-121.750907 °
DWR ID	DWR_ST0001_02_f_2016_5				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_5_20180904_00005.jpg



Prunings on LS levee slope. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	4.20	Rating **	M	Issue No.	28
LM End	4.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.725449 °	38.725449 °
				-121.750856 °	-121.750856 °
DWR ID	DWR_ST0001_02_f_2017_28				
Comment Code					
EQ : Equipment					
Inspector Comment					
Pipes and farm equipment at landside toe.					

No Photos

LM Start	4.27	Rating **	M	Issue No.	25
LM End	4.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.726237 °	38.726237 °
				-121.749889 °	-121.749889 °
DWR ID	DWR_ST0001_02_f_2017_25				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landside slope.					

No Photos

LM Start	4.42	Rating **	A/W	Issue No.	4
LM End	4.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.726840 °	38.726840 °
				-121.747228 °	-121.747228 °
DWR ID	DWR_ST0001_02_f_2016_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on LS slope near levee toe. It does not appear to pose a significant threat. Recommend monitoring.					

Photo 1 of 1 : FA_2018_ST0001_260_4_20180904_00004.jpg



Erosion on LS levee slope toward the toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	4.49	Rating **	M	Issue No.	27
LM End	4.49	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727065 °	38.727065 °
				-121.746002 °	-121.746002 °
DWR ID	DWR_ST0001_02_f_2013_27				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0001_260_27_20180904_00019.jpg



View of the horse corral and building on the waterward side of the levee looking downstream. Fall 2015.

LM Start	4.69	Rating **	M	Issue No.	14
LM End	4.80	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727588 °	38.727158 °
				-121.742387 °	-121.740499 °
DWR ID	DWR_ST0001_02_s_2016_14				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 2 : FA_2018_ST0001_260_14_20180904_00012.jpg



View of ditch on landside near the levee toe looking upstream of Cache Creek. Fall 2016.

LM Start	4.69	Rating **	M	Issue No.	14 (cont)
LM End	4.80	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2018_ST0001_260_14_20180904_00013.jpg



View of ditch on landside near the levee toe looking downstream of Cache Creek. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.48	09/20/2018 09/21/2018	Zach Jojola

LM Start	4.73	Rating **	M	Issue No.	13
LM End	4.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.727431 °	38.727431 °
				-121.741661 °	-121.741661 °
DWR ID	DWR_ST0001_02_f_2018_13				
Comment Code					
EQ : Equipment					
Inspector Comment					
Beehives on waterside toe.					

Photo 1 of 1 : FA_2018_ST0001_260_13_20180924_00023.jpg



View of beehives on the waterside toe. Fall 2018.

LM Start	5.33	Rating **	A/W	Issue No.	11
LM End	5.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.722933 °	38.723467 °
				-121.760561 °	-121.760436 °
DWR ID	DWR_ST0001_02_f _ 2018_11				
Comment Code					
Inspector Comment					
2017 Site ID: CHC 5.4 L					
Status: Eroding					
2017 Field Notes: Site continues to erode due to recent high storm events.					
Site History: 2009 - Erosion into the levee slope. 2010 - Minor new erosion. 2011 - New erosion and a freshly fallen tree. 2012 - New animal holes and slightly steeper slopes. 2013 - New tree popout and 2 feet of erosion along the top bank.					

Photo 1 of 1 : FA_2018_ST0001_260_11_20181023_00024.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sacramento Maintenance Yard Cache Creek

Waterway			Bank	Unit Miles
Unit No. 04 East Training Levee of Cache Creek Settling Basin			Left	2.26
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/6/2018 - 3/6/2018		9/4/2018 - 9/4/2018	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Sacramento Maintenance Yard Cache Creek

Page 1 of 4

Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	09/04/2018 09/04/2018	Zach Jojola

LM Start	2.26	Rating **	M	Issue No.	1 (cont)
LM End	2.26	Issue Type +	Ma	Location *	

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	09/04/2018 09/04/2018	Zach Jojola

LM Start	2.26	Rating **	A/W	Issue No.	3
LM End	2.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.695416 °	38.695416 °
				-121.715943 °	-121.715943 °
DWR ID	DWR_ST0001_04_s_2017_3				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Scour on waterside levee slope at end of Unit 04 levee. There is no visible active erosion at this time, however future high water events will likely cause further erosion into the levee prism.					

LM Start	2.26	Rating **	A/W	Issue No.	3 (cont)
LM End	2.26	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : FA_2018_ST0001_261_3_20180904_00004.jpg



View of scour on waterside levee slope at the end of Unit 4. Spring 2018.

Photo 2 of 4 : FA_2018_ST0001_261_3_20180904_00005.jpg



View of newly scoured pond adjacent to the levee. Spring 2018.

LM Start	2.26	Rating **	A/W	Issue No.	3 (cont)
LM End	2.26	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2018_ST0001_261_3_20180904_00006.jpg



View of scour at the end of the Training Levee. Ramp is inaccessible at this time. Fall 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.26	09/04/2018 09/04/2018	Zach Jojola

LM Start	2.26	Rating **	A/W	Issue No.	3 (cont)	
LM End	2.26	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.695416 °	38.695416 °	
				-121.715943 °	-121.715943 °	
DWR ID	DWR_ST0001_04_s_2017_3					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Scour on waterside levee slope at end of Unit 04 levee. There is no visible active erosion at this time, however future high water events will likely cause further erosion into the levee prism.						

Photo 4 of 4 : FA_2018_ST0001_261_3_20180904_00007.jpg



Scour on waterside levee slope at end of Unit 04 levee. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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